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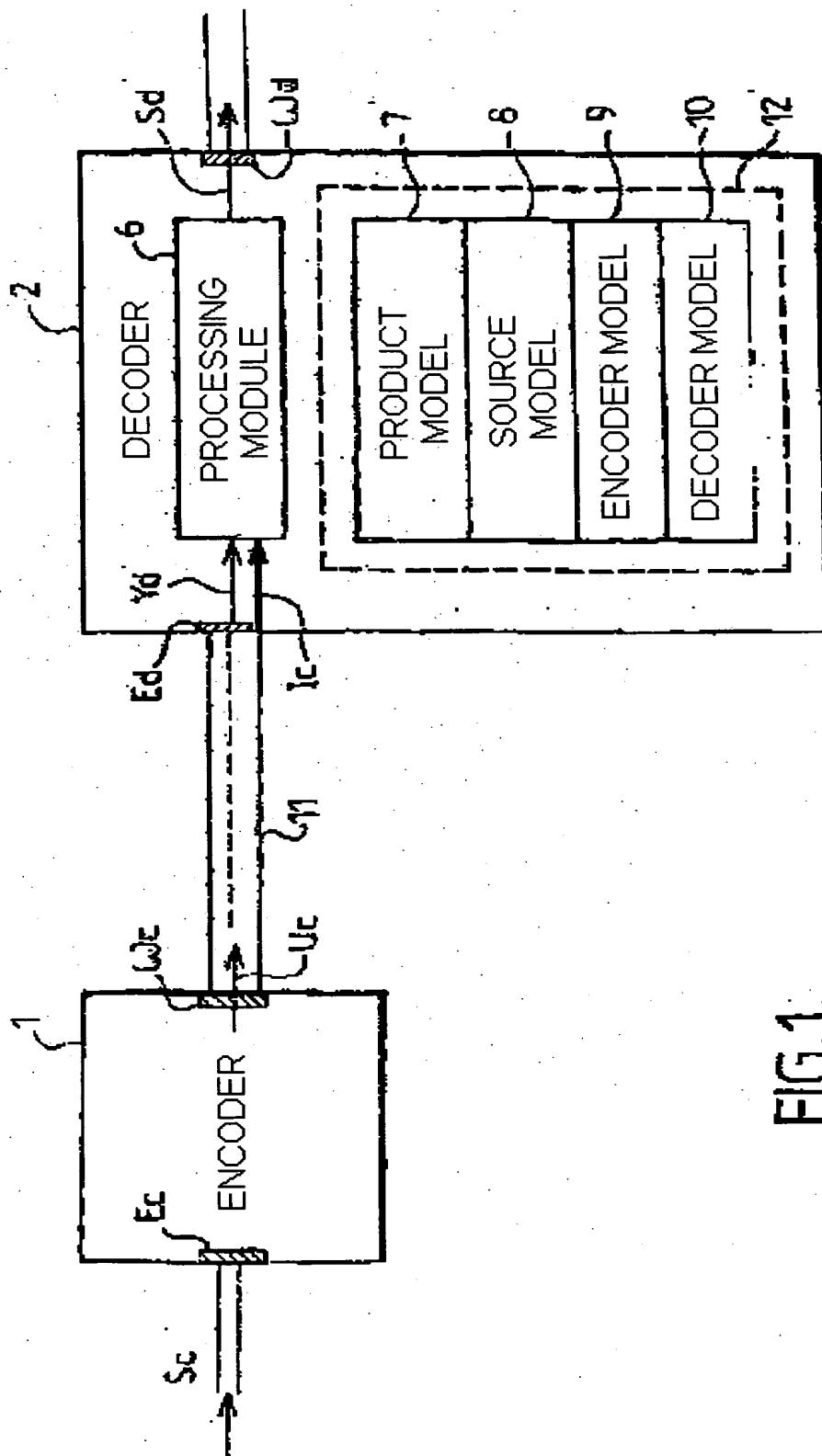


FIG.1

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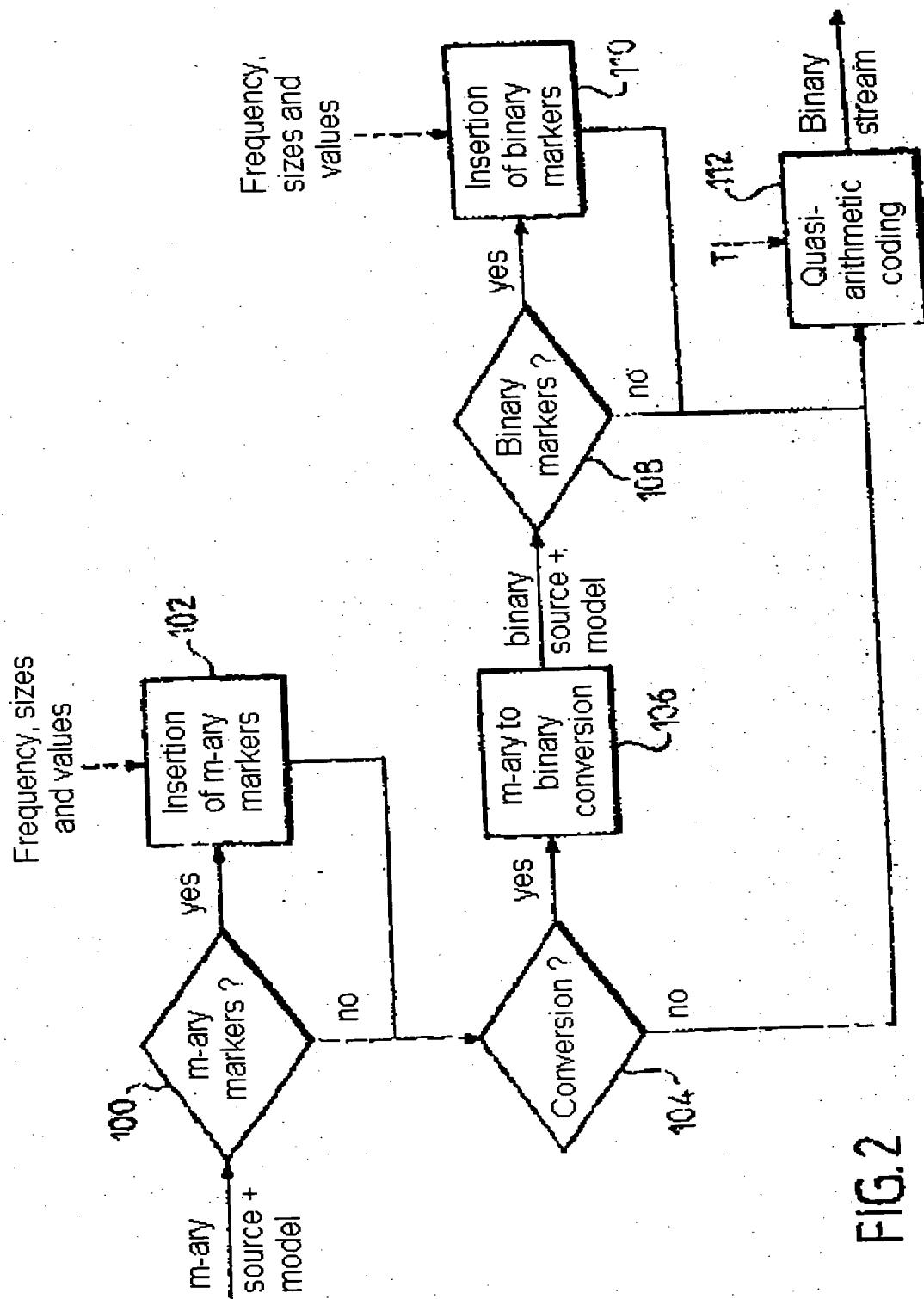


FIG. 2

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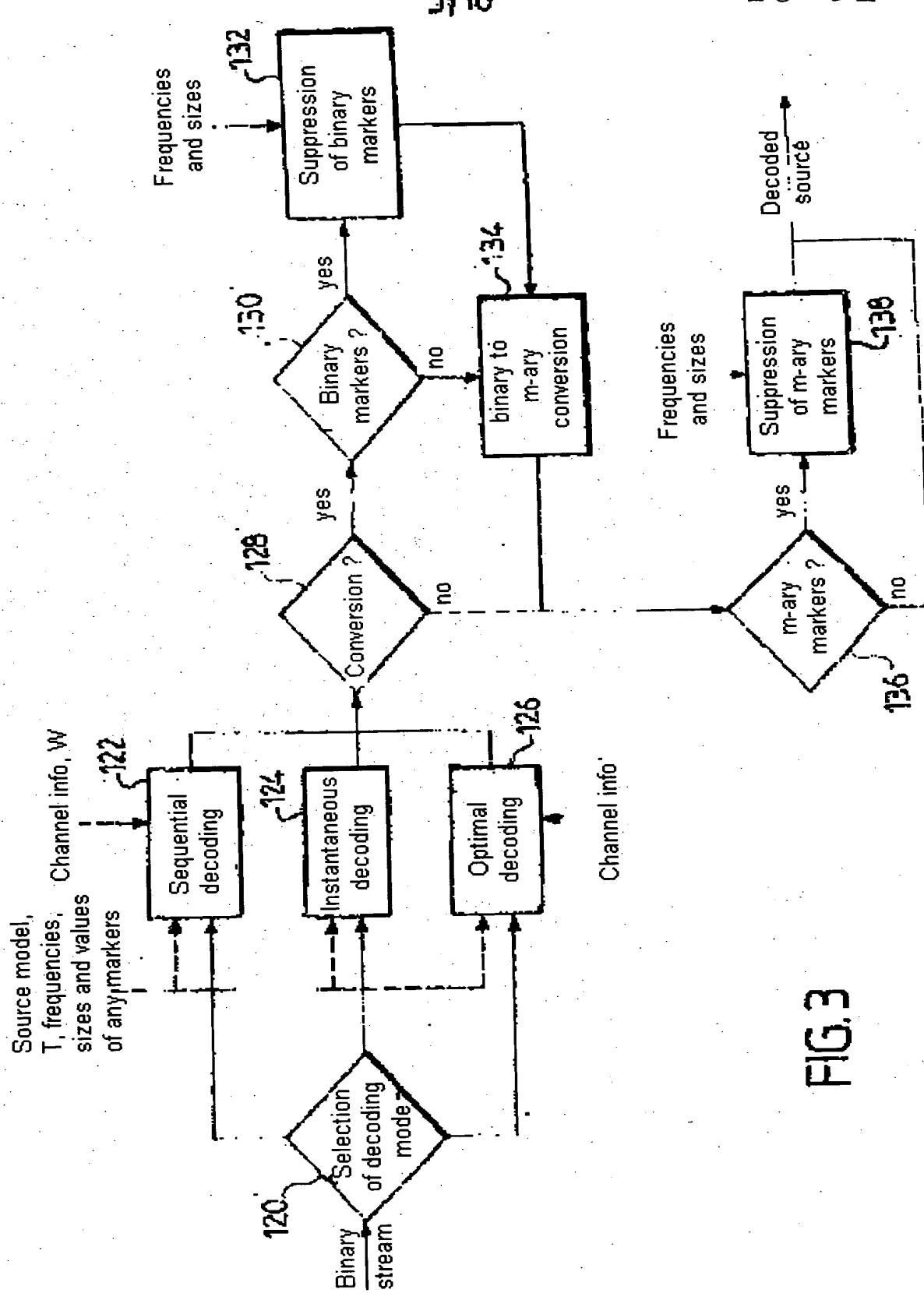


FIG. 3

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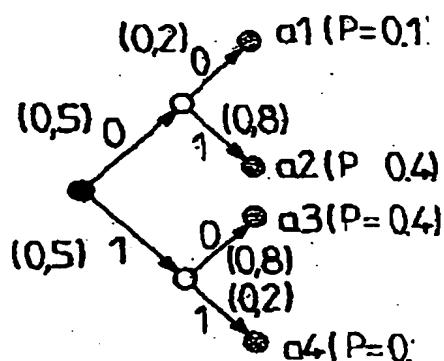


FIG. 4a

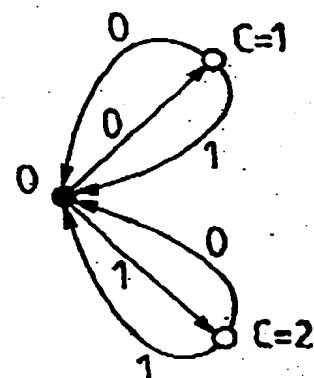


FIG. 4b

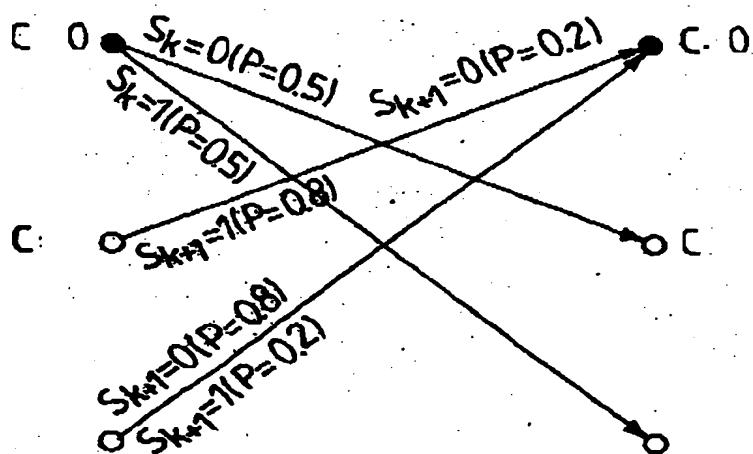


FIG. 4c

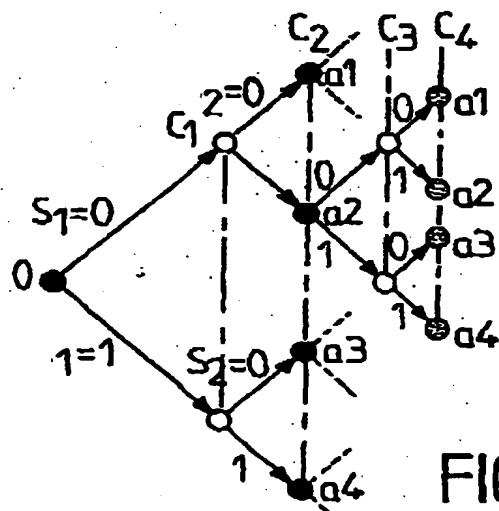


FIG. 5a

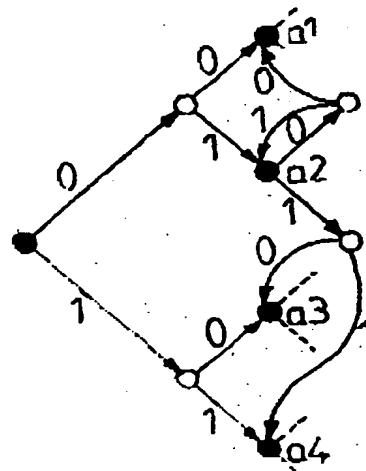


FIG. 5b

C3

C2

C1

State E_k	[low S_k] up S_k]	normal states model			simplified states model		
		$S_k = 0$	$S_k = 1$		$S_k = MPS$	$S_k = LPS$	
		bits emitted	next state	bits emitted	next state	bits emitted	next state
0	$0.41 \leq P(0)$	0.3	0	1	11	0	0
	$0.37 \leq P(0) < 0.63$	0.2	0	0	0	0	0
1	$P(0) < 0.37$	0.1	0	0	2		
	$0.3 \leq P(0)$	0.2	0	0	0	0	0
2	$P(0) < 0.5$	0.1	0	0	0	0	0
	$0.5 \leq P(0)$	0.3	1	0	11	0	0
3	$P(0) < 0.5$	0.2	0	0	1		
	$0.5 \leq P(0)$	0.1	0	0	0	0	0

Table 1

K1

K2

K3

State E_h	State variables [low U_h , up U_h]	P(MPS) (corresponding subdivision of $low S_k$, up S_k)		$U_h = 0$		$U_h = 1$	
		bits emitted	next state	bits emitted	next state	bits emitted	next state
0	$low U_h, up U_h : [0.41, 0.63] \leq P(MPS)$	0.31	MPS	0	-	1	
	$low S_k, up S_k : [0.41, 0.5] < P(MPS) < 0.63$	0.21	MPS	0	LPS	0	
1	$low U_h, up U_h : [0.41, 0.5] \leq P(MPS)$	0.31	MPS	1	LPS	0	
	$low S_k, up S_k : [0.41, 0.5] \leq P(MPS)$	0.21	MPS	0	LPS	0	

Table 2

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State X_k	State variables	MPS	LPS
0 Initial state	[04] C=0	bits emitted: 0 next state: 1	bits emitted: 1 next state: 2
1	[04] C=1	bits emitted: 0 next state: 3	bits emitted: 11 next state: 0
2	[04] C=2	bits emitted: 0 next state: 3	bits emitted: 11 next state: 0
3	[03] C=0	bits emitted: 0 next state: 1	bits emitted: 0 next state: 2

FIG.6A

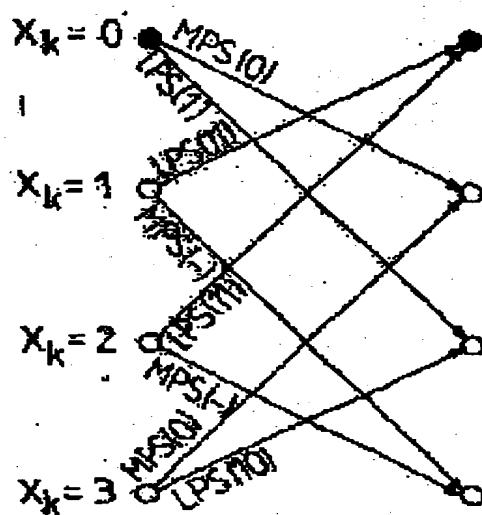


FIG.6B

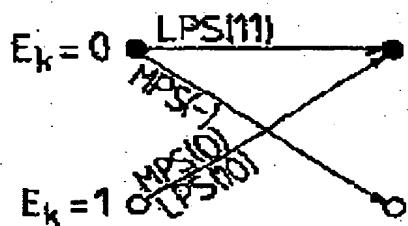


FIG.7A

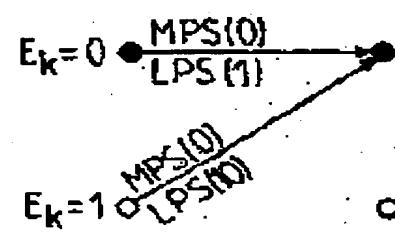


FIG.7B

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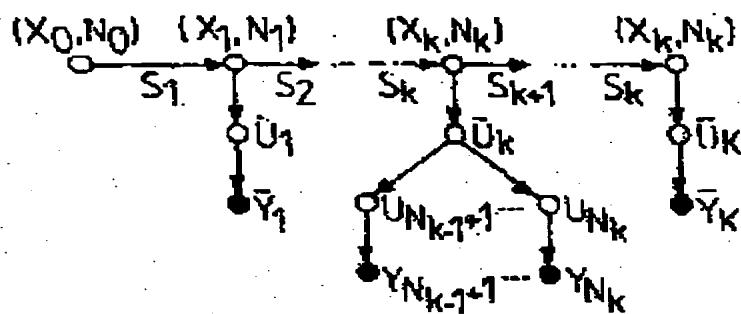


FIG.8

State X_k	State variables	$U_n = 0$	$U_n = 1$
0 Initial state	[0,4] [1,0] C=0	symbol emitted : MPS next state : 1	symbol emitted: LPS next state : 2
1	[0,4] [1,0] C=1	symb emitted:MPS,MPS next state : 1	symbol emitted: next state : 3
2	[0,4] [1,0] C=2	symb emitted:MPS,MPS next state : 1	symbol emitted: next state : 4
3	[2,4] [0,4] C=1	symb emitted:MPS,LPS next state : 2	symbol emitted: LPS next state : 0
4	[2,4] [0,4] C=2	symb emitted:MPS,LPS next state : 2	symbol emitted: LPS next state : 0

FIG.9a

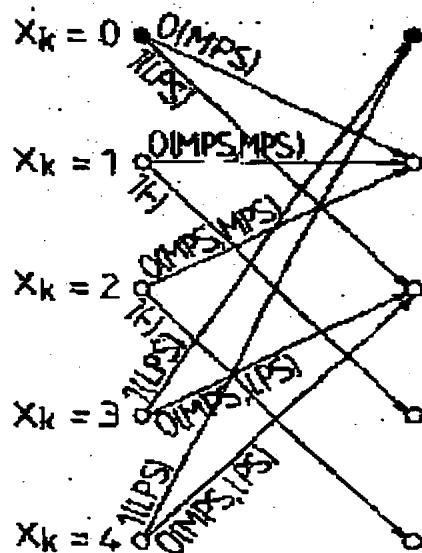


FIG.9b

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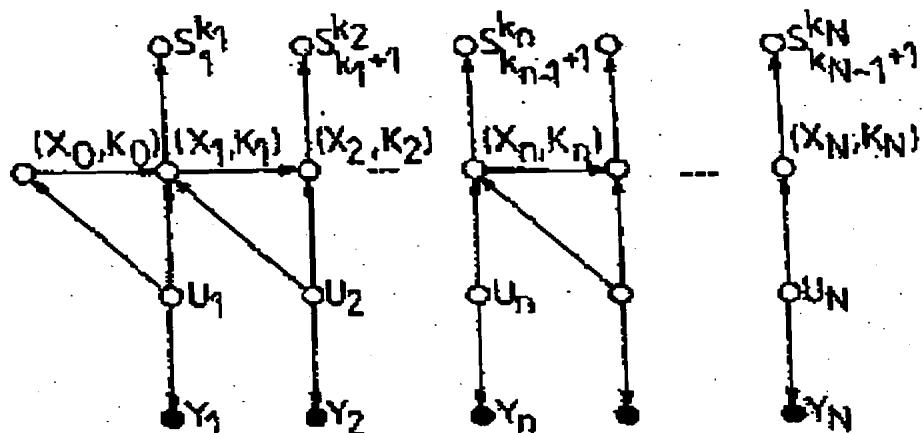


FIG.10

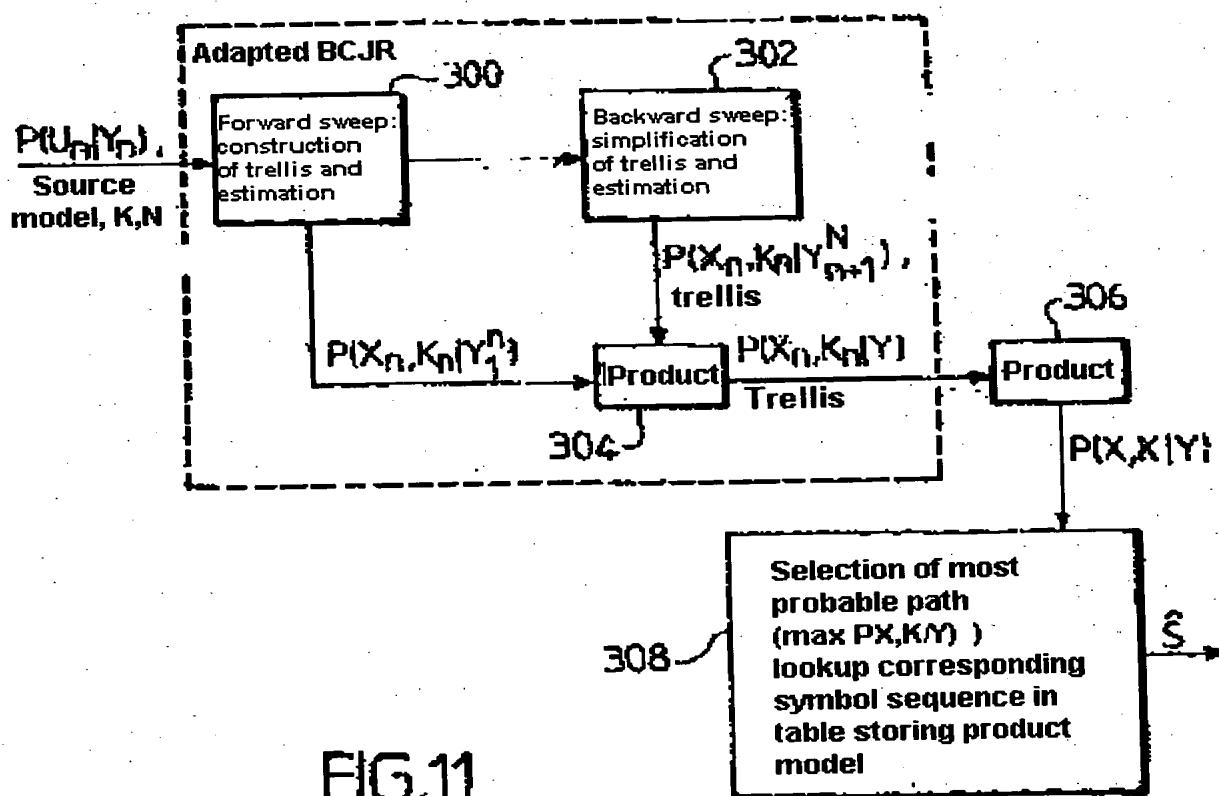


FIG.11

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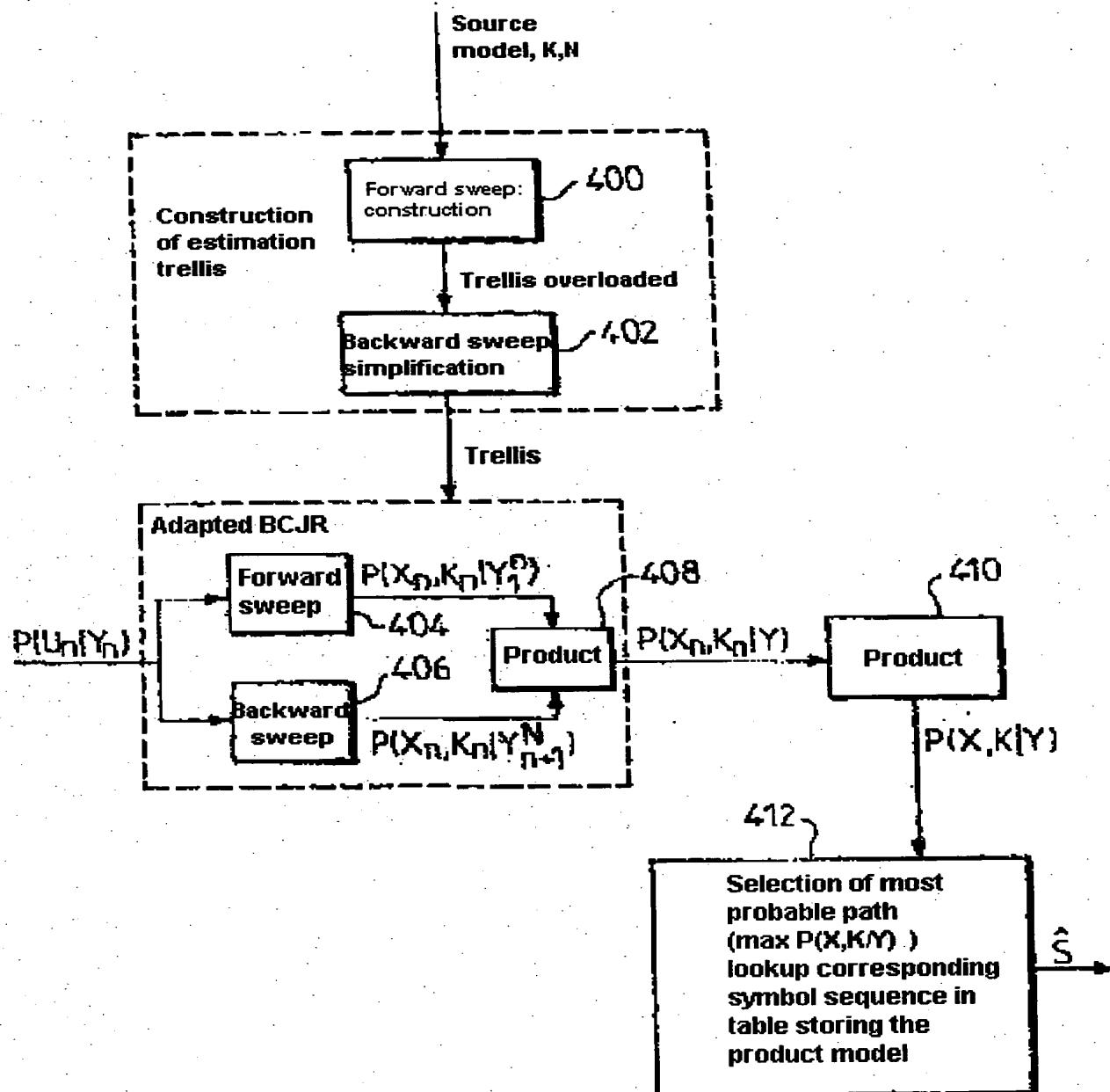


FIG.12

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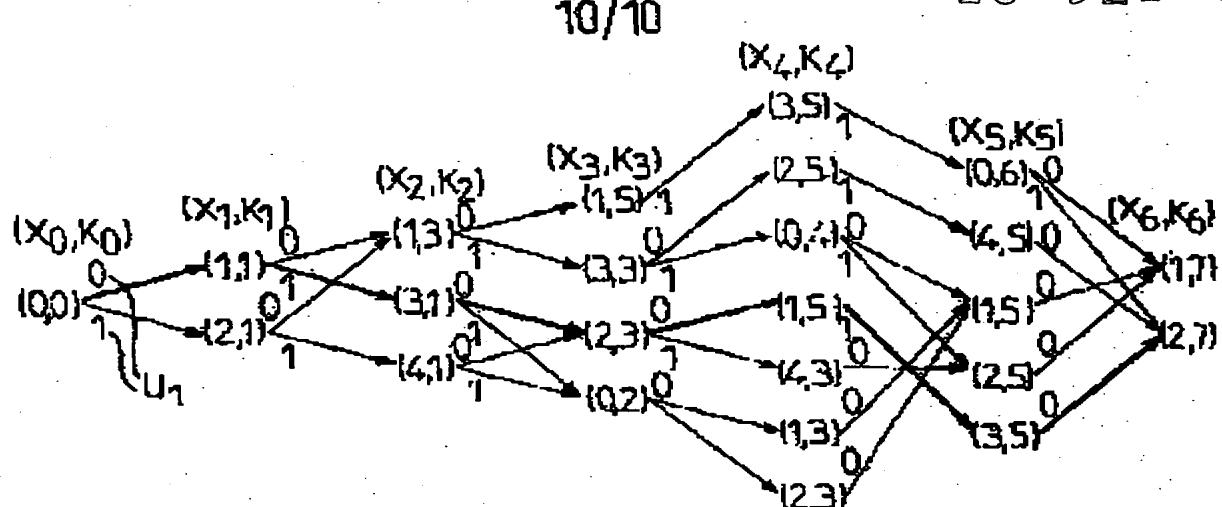


FIG.13

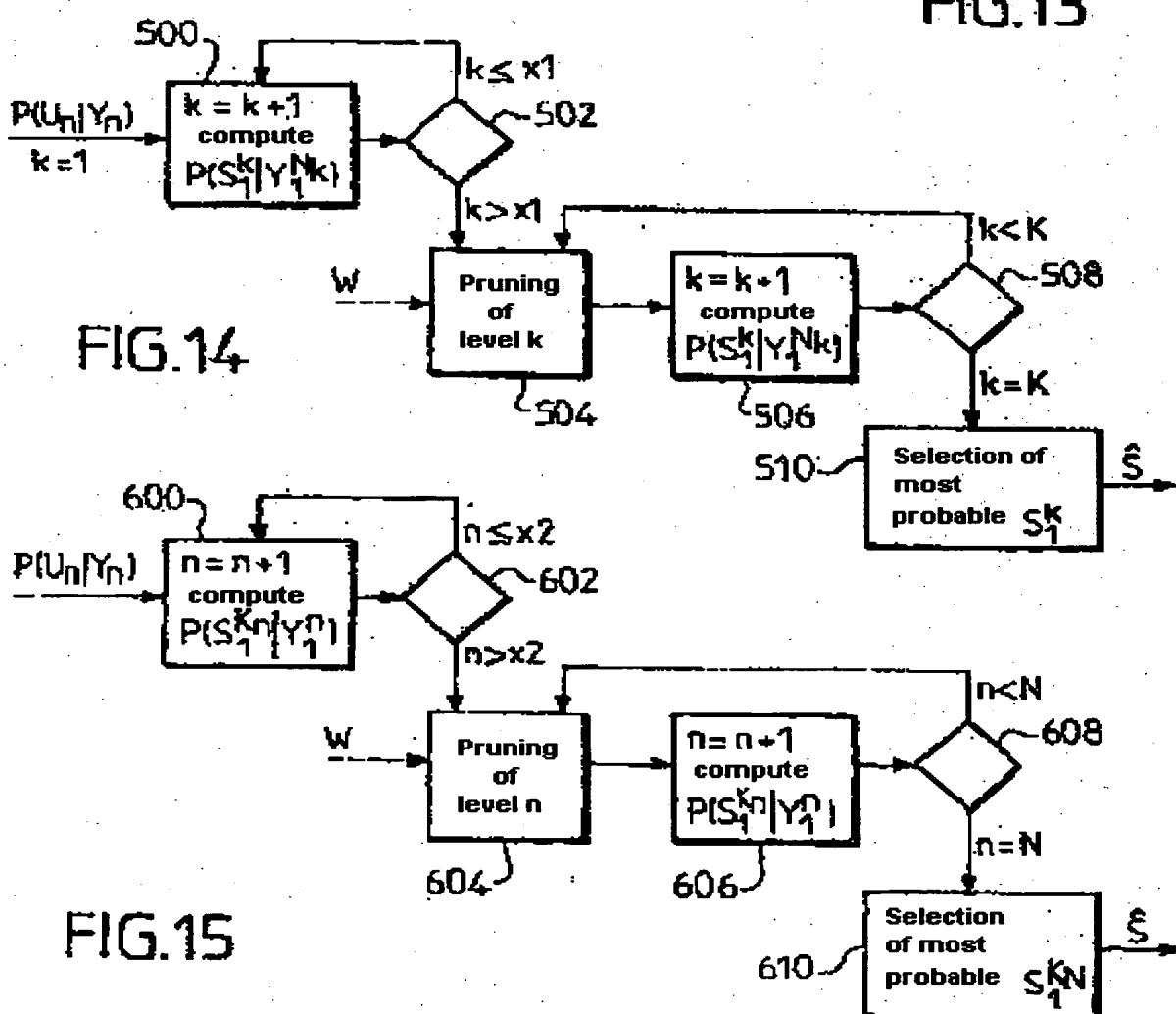


FIG.14

FIG.15

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